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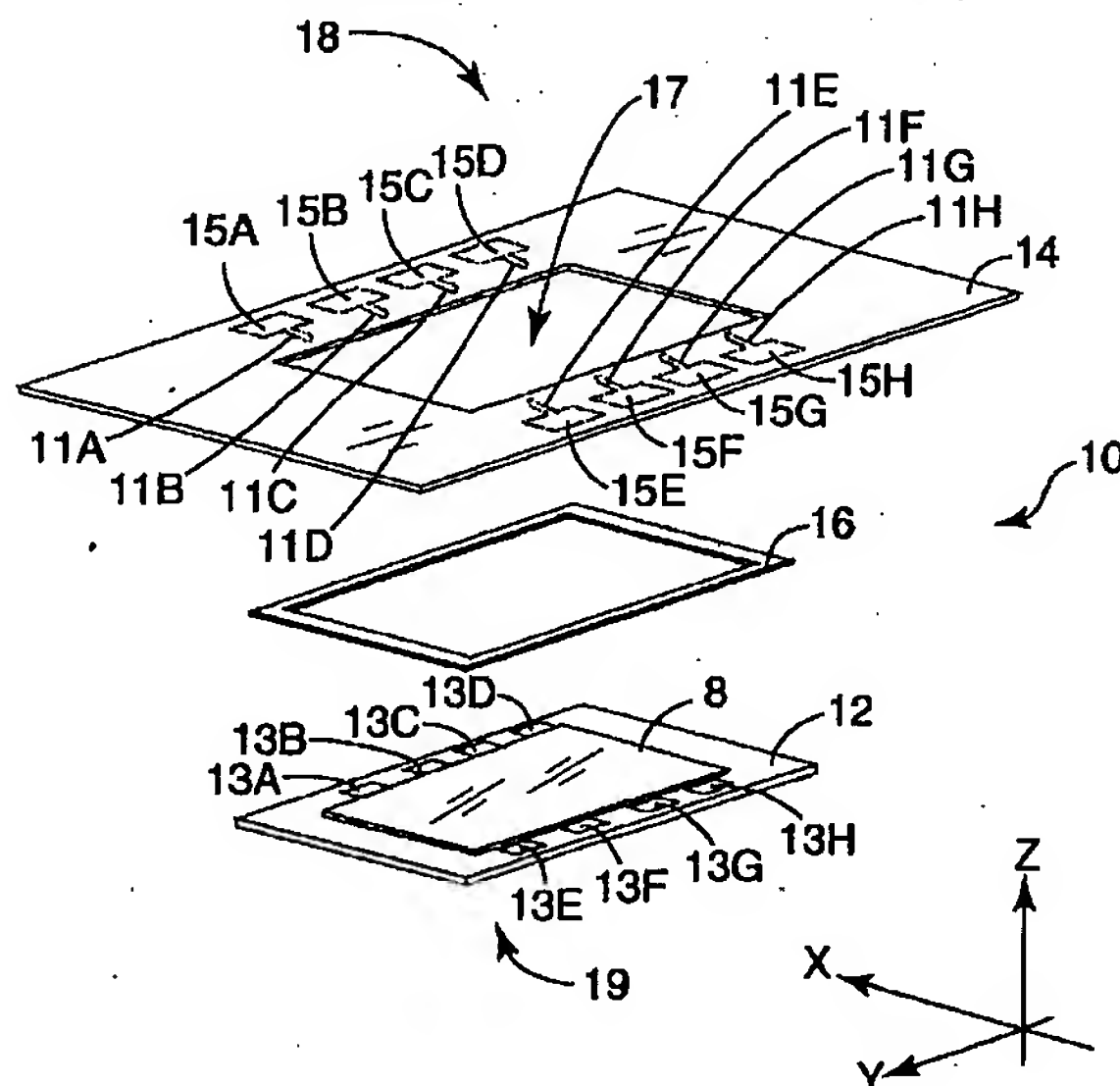
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(54) Title: SURFACE ACOUSTIC WAVE SENSOR ASSEMBLIES



(57) Abstract: The invention is directed to a surface acoustic wave sensor assembly that makes use of a Z-axis conductive layer, such as a Z-axis conductive elastomer, or the like. In particular, a Z-axis conductive elastomer couples a circuit layer to a surface acoustic wave (SAW) sensor in order to form a SAW sensor assembly. For example, a plurality of electrical contacts of the circuit layer can be coupled to a plurality of electrodes of the SAW sensor via the Z-axis conductive elastomer. The Z-axis conductive elastomer provides electrical coupling between the electrical contacts and the electrodes, and also forms a hermetic barrier between the circuit layer and the SAW sensor. In addition, elastic properties of the Z-axis conductive elastomer may reduce pressure exerted on the SAW sensor during use.

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